

# Technical Documentation - IMEP

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## Access Management

## Roles & Access

List of application role + menu role and explanation if we have several applications role with specials rules.

| Role Code        | Role Description                                     | Explanation                                                                                                                    |
|------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| ZR_RCS_CA_M55    | IMEP - Integrated Manufacturing & Energy Performance | Gives access to queries & workbooks IMEP (Manufacturing & Energy reports)                                                      |
| ZBI_RCS_IMEP_A01 | IMEP - Integrated Manufacturing & Energy Performance | Gives access to InfoArea IA_FMCO_CO_IMEP*<br>Authorization object ZBI_IMEP                                                     |
| ZR_RCS_CA_M551   | IMEP - Upload Data - Non-SAP Plant ZIMEP_FILE        | Gives access to transaction ZIMEP_FILE which allows IMEP Flat Files upload.<br>(same logic than for P&L / role ZR_RCS_CA_M432) |

## Authorization Objects

List of authorization objects mandatory for the application.

| Authorization object | Explanation                                                                                                            |
|----------------------|------------------------------------------------------------------------------------------------------------------------|
| GBU ( CPFCTR1_2 )    | ZR_*_CA_P05                                                                                                            |
| Plant (C_PLANT)      | ZR_*_CA_P02<br>ZR_7866_CA_P02 => Plant 7866 - Chalampé (ex 7027) - (Cie ZFR9)<br>ZR_TOUT_CA_P02 => All Plants "Solvay" |
| Company (C_COMPCE)   | ZR_*_CA_P01                                                                                                            |
| C_PLANT__C_AUTHMA    | ZR_*_CA_P00                                                                                                            |

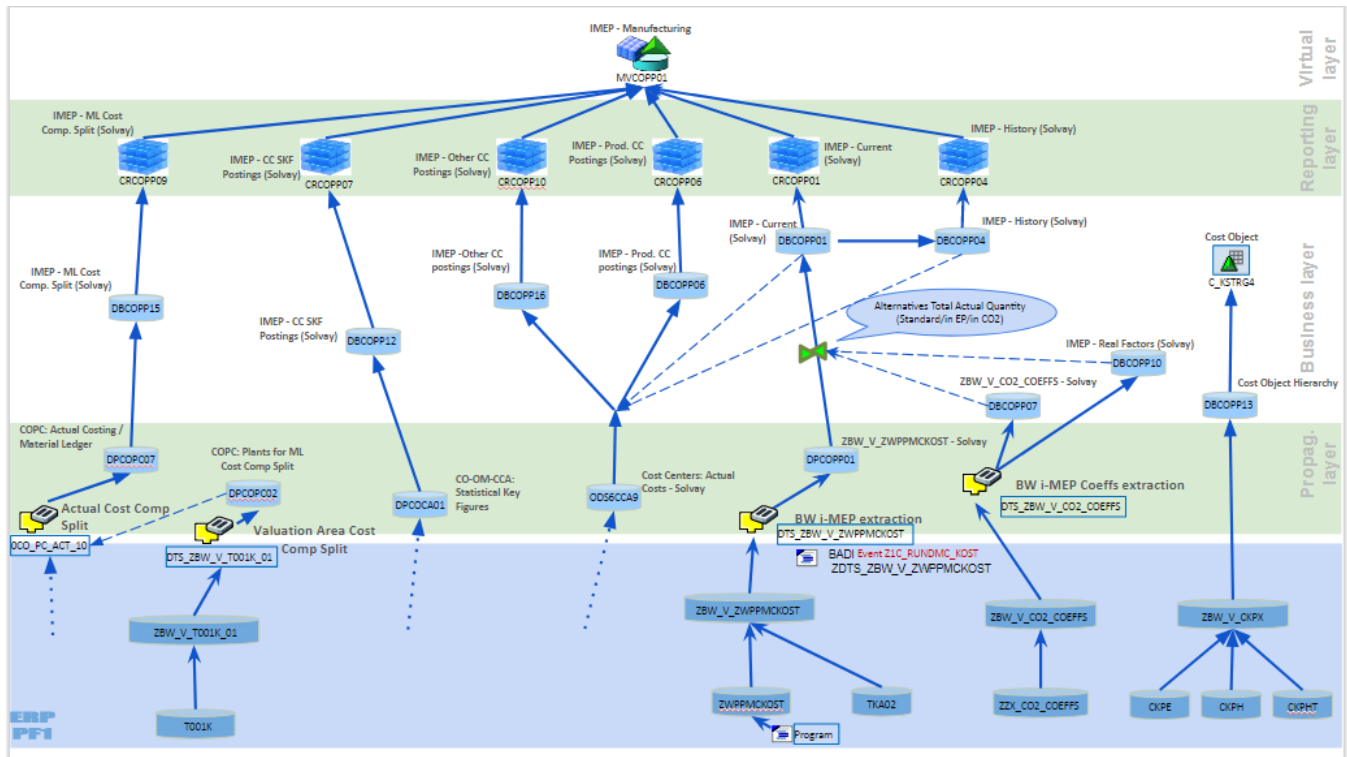
## DataFlow

[MVCODTS\\_ZBW\\_V\\_ZWPPMCKOSPP01](#)

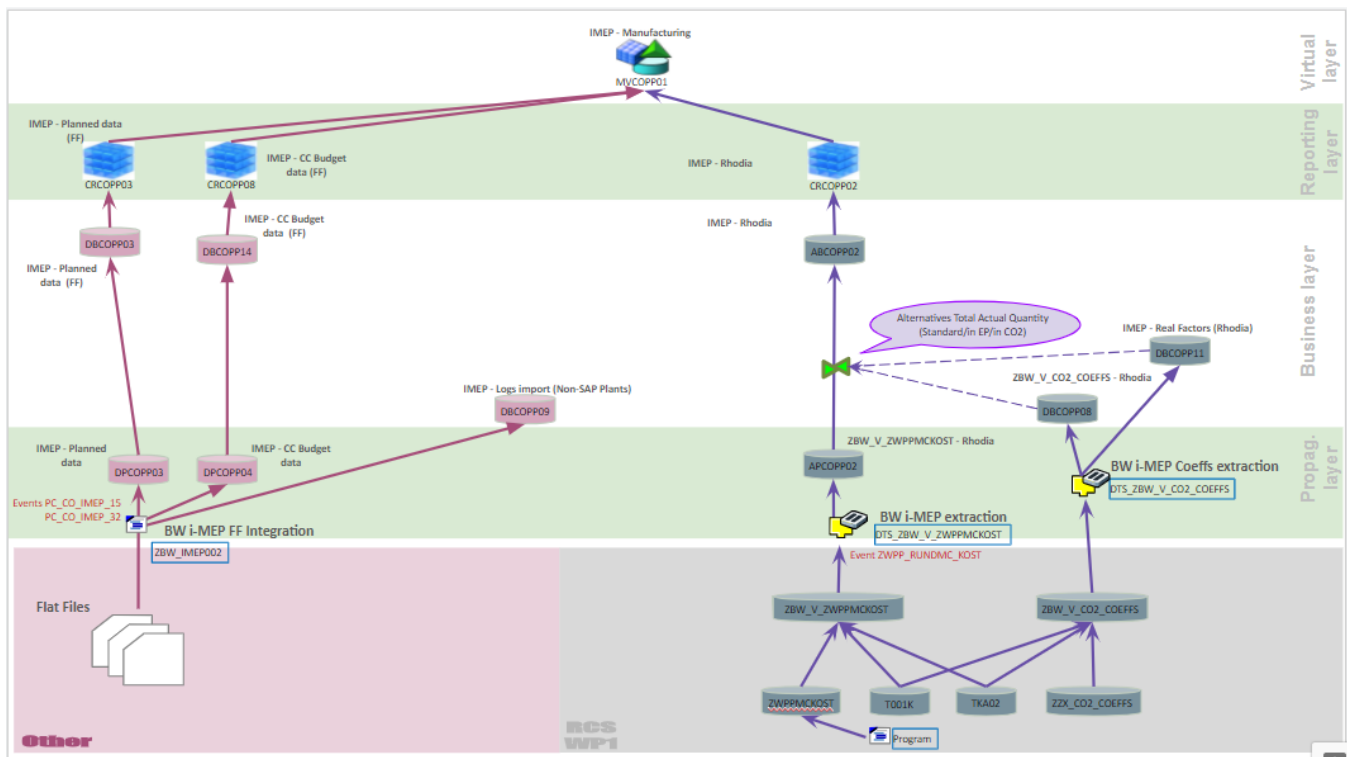
## Overview

[https://drive.google.com/file/d/1WU6drRUXJSeAiGALHh01-eouKNvEJCG2hlgNTaya\\_v4/view](https://drive.google.com/file/d/1WU6drRUXJSeAiGALHh01-eouKNvEJCG2hlgNTaya_v4/view)

## PF1



## Flat Files & WP1



## General presentation

### Objective of the application

i-MEP stands for Integrated Manufacturing & Energy Performance

The i-MEP application provides to business the possibility to analyze the production's target cost, actual cost, the variance for each cost item in process order, the cost collector, and to determine energy consumption and CO2 emission during production process.

BI manufacturing reports will replace house solutions :

- on RCS (WP1) : programs ZWPP40A/B/C
- on Solvay (PF1) : program Z1K\_MATCOST (Prix de Revient)

Tool Leader + IT leader of the application:

## Usage information

Around 400 users worldwide.

Access to ZIMEP\_FILE transaction for Flat File Integration is limited to 17 users as of 26.07.2018.

## History

2020.08:

- Update of WP1 Dataflow to make use of Hana. DPCOPP02 replaced by APCOPP02 and DBCOPP02/05 replaced by ABCOPP02.

2018.10:

- Update Current Month Loading Period to be reloaded every day of the month (except Sundays), including closing period.
- Split Global Filters SOLV\_DEL, SOLV\_LOAD, RCS\_DEL and RCS\_LOAD between Current Period and Previous Period to reduce risks of collisions between the chains.
- Update Main Process Chains to reduce risks of collisions: Coefficients, Plants for ML Split and Texts only loaded in Current Month chain (once a day).
- Creation of C\_IMEPAPP and update of the AppLoadStatus program to load C\_IMEPAPP at the same time as C\_BWAPP for Applications "IMEP"

2018.06-2018.07:

- Evolution of CC Postings flow (CRCOPP06). Data is now separated between Production CC postings (CRCOPP06) and Other CC postings (CRCOPP10)
- Creation of C\_ORIMAP2, in reference to C\_MATPNT2, to collect Cost Object from PF1
- Update of Programs ZBW\_IMEP002/ZBW\_IMEP003 to take into account the Fiscal Year and a list of Plants when importing Flat Files.
- Update of associated Process Chains to take these changes into account.
- Creation of Historical Process Chain, to store M-2 data from CRCOPP01 into CRCOPP04 once a month.
- Deployment of authorization ZR\_RCS\_CA\_M551 to controllers for Flat Files Integration.

2018.04:

- Creation of C\_ORIMAP3, in reference to C\_MATPNT3, to collect Origin Group from PF1 table MBEW.
- Evolution of Main IMEP flow (CRCOPP01/04). Data is no longer separated by Index1, but in current data (CRCOPP01, M & M-1) and history (CRCOPP04, M-2 and older).
- Update of associated Process Chains to take this change into account.
- Creation of Program ZBW\_IMEP004 to delete history data from DBCOPP01 after they have been moved to DBCOPP04.
- Update on how Real Factors are calculated in DSO DBCOPP10.

2018.03:

- Implementation of Cost Centers postings (CRCOPP06) & Cost Centers SKF postings (CRCOPP07) flows.
- Implementation of Cost Center Postings Budget Import (CRCOPP08) flows.
- Creation of Process Chains PC\_CO\_IMEP\_32/33/34/35/36, for CC Posting Budget Import.
- Update of ZBW\_IMEP002 to integrate CC Posting Budget Flat Files.
- Creation of C\_CELTHX5, 5th and last level of XCS-ALL hierarchy in 0COSTELMNT.

2018.01:

- Creation of Process Chains PC\_CO\_IMEP\_28/29/30, collecting Standard Key Figure Attributes and Texts from PF1.
- Implementation of Business Rules and Selective Deletion in InfoProviders for ZBW\_IMEP002.
- Update of Flat File Integration structure - removed obsolete InfoProviders.

2017.12:

- Creation of C\_KSTRG4 (Cost Object Hierarchy) and C\_ETABR3 (R/3 Establishment)
- Implementation of new flows for above MDs
- Update of C\_MATPNT2 to include above MDs as attributes
- Update of Flat File Integration structure

2017.11:

- Separation of Process Chains for daily loading for Current Month (events XXX) and Previous Month (events XXX\_PREV\_MTH) Loadings
- Implementation of Material Ledger Costing Split
- Implementation of Origin Split & Origin Group
- Implementation of Cost Element Group



This view exist on system PF1 and references table:

- TKKH2 / Text Table for Origin in CO Object

View contains Texts associated to Origin Group.

View is filtered on Controlling Area = CHEF, Origin Type = 02 and Language = English.

## View ZBW\_V\_CKPX / Cost Objects Hierarchies

This view exist on system PF1 and references tables:

- CKPE / CO-PC Cost Object Hierarchy: Individual Objects
- CKPH / Master Record: Cost Object ID Number
- CKPHT / Texts for CKPH

View contains all levels of Cost Object Hierarchy as attributes, as well as the associated texts.

~~View is filtered on CKPHT Language = English.~~ (obsolete)

Tables are filled from table KKPHIE. (To be confirmed)

## View ZBW\_V\_ETABR3 / Establishment Texts

This view exist on system PF1 and references tables:

- ZZRETABR3 / R3 establishment
- ZZRETAB / Establishment
- ZZRSITE / Site

View contains Texts associated to R/3 Establishments.

## At datasource level (PF1/WP1)

For PF1 only:

- DataSource DTS\_ZBW\_V\_TKKH2, based on view ZBW\_V\_TKKH2, returns Origin Group Texts.
- DataSource DTS\_ZBW\_V\_CKPX, based on view ZBW\_V\_CKPX, returns Cost Object Attributes & Texts.
- DataSource DTS\_ZBW\_V\_ETABR3, based on view ZBW\_V\_ETABR3, returns R/3 Establishment Texts.

## Datasource : DTS\_ZBW\_V\_ZWPPMCKOST based on view ZBW\_V\_ZWPPMCKOST:

### Controlling Area (OCO\_AREA)

The controlling area is unique on PF1 ( value CHEF), but not on WP1 ( Z006, Z025, Z026...)

The controlling Area is not available on ECC side specific tables, but, in order to match the BI referential, this information is necessary to get referential attribut and texts (example 'Cost Center' C\_COSTCTR, 'Profit Center' C\_PFT\_CTR)

To get the information extractor are based on specific view with follow the business rule given :

- A plant belongs to a single company code (link found in table T001K where 'Valuation Area' (BWKEY) corresponds to the plant (WERKS)
- A company code belongs to a single controlling area (link found in table TKA02 / field 'Business Area' (GSBER) is always empty)

### Cost Component Structure (OCCOMPSTRUC)

The Cost Component Structure id is not unique on PF1 (on WP1, only id Z1 is used), and the id is not part of source table ZWPPMCKOST.

The append ZEXTRA\_FIELDS has been added to extract structure of the data source (ZOXDF10019). Fields belonging to the append are field within class **ZDTS\_ZBW\_V\_ZWPPMCKOST**.

To get the information :

- by default set id to 'Z1' except for exception managed in table TCK07 'Costing Variants for Organizational Units'
- Exceptions for certain company codes (BUKRS)
  - ignore value '++++'
  - keep only one valid record by company code (the latest)

## Cost Element Texts (0COSTELMNT) & Statistical Key Figure (0STKEYFIG)

Some Cost Elements do not fit the standard format for this Master Data - coded on 6 characters, they stand for Statistical Key Figures that are not used.

Because these Cost Elements do not exist in hierarchy CHEFXCS-ALL, values for attributes C\_CELTHX1/2/3/4/5 are collected through Flat File flow based on DataSource DTS\_FMCO\_0COSTELMNT\_01.

Statistical Key Figures are loaded using generic datasources 0STKEYFIG\_ATTR (Attributes) and 0STKEYFIG\_TEXT (Texts)

Texts from Statistical Key Figures are then copied in Cost Element texts (TRSF: IOBJ 0STKEYFIG -> IOBJ 0COSTELMNT).

Generic datasources exist in SOLVAY PF1 Dataflow only.

## At business level (WBP)

### GBU (CPFCTR1\_2)

The GBU available for reporting is BFC Global Business Unit (CPFCTR1\_2)

- For RCS WP1 data, the GBU is taken from the Profit Center (Navigational attribut 0PROFIT\_CTR\_\_CPFCTR1\_2)
- For Solvay PF1 data, the GBU is calculated at Business Level following below rule

TRSF: ODSO DPCOPP01 -> ODSO DBCOPP04 (10/02/2023 DBCOPAP04 not loaded since sept 2020).

- **Case 1:** Profit Center (0PROFIT\_CTR) & Company Code (C\_COMPCDE) are filled

Case 1a: Profit Center is 10 characters long + starting with 'F' + plant is filled

- Concatenate Profit Center, Company Code, Plant
- Read MasterData Technical Business Area (C\_TechBA) and get GBU (CPFCTR1\_2)

Case 1b: Profit Center on 5 positions starting by 'D'

- Concatenate '00000', Profit Center, Company Code
- Read MasterData Technical Business Area (C\_TechBA) and get GBU (CPFCTR1\_2)

**Case 2 :** Plant (C\_PLANT) & Material (C\_MATPNT2) are filled

- Read MasterData Material Plant (C\_MATPNT2) and get Profit Center (0PROFIT\_CTR)
- Then apply Case 1a and Case 1b

**Case 3:** Controlling Area (0CO\_AREA), Cost Center (C\_COSTCTR) are filled

- Read MasterData Cost Center (C\_COSTCTR) and get GBU (CPFCTR1\_2)

#### Other lookup:

TRSF: APCOPP01 -> ABCOPP01 (Solvay) & TRSF: ODSO DPCOPP01 -> ODSO DBCOPP01: matpnt2 or costctr.

TRSF: ODSO DPCOPP03 -> ODSO DBCOPP03: C\_KSTRG4

#### Assignment in multiprovider MVCOPP01:

| InfoObject                                        | CPFCTR1_2                |                                                            |
|---------------------------------------------------|--------------------------|------------------------------------------------------------|
| Long Description                                  | BFC Global Business Unit |                                                            |
| Reference InfoObject                              | CPFCTR1_2                |                                                            |
| Assignment for:                                   | <All Involved Providers> |                                                            |
| Identification of Characteristic/Navigation Attr. |                          |                                                            |
| InfoProvider                                      | Dimension                | InfoObject/Nav.Attr.                                       |
| IMEP - Solvay                                     | Organization             | <input checked="" type="checkbox"/> CPFCTR1_2              |
| IMEP - Rhodia                                     | Organization             | <input checked="" type="checkbox"/> 0PROFIT_CTR__CPFCTR1_2 |
| IMEP - Planned data from flat file (Solvay)       | Organization             | <input type="checkbox"/> 0PROFIT_CTR__CPFCTR1_2            |
|                                                   | BFC                      | <input checked="" type="checkbox"/> CPFCTR1_2              |
| IMEP - History (Solvay) (Obsolete)                | Organization             | <input checked="" type="checkbox"/> CPFCTR1_2              |
| IMEP - History (Rhodia) (Obsolete)                | Organization             | <input checked="" type="checkbox"/> 0PROFIT_CTR__CPFCTR1_2 |
| IMEP - Prod. CC postings (Solvay)                 | Cost Center              | <input checked="" type="checkbox"/> C_COSTCTR__CPFCTR1_2   |
| IMEP - CC SKF postings (Solvay)                   | Cost Center              | <input checked="" type="checkbox"/> C_COSTCTR__CPFCTR1_2   |
| IMEP - CC budget data from flat file (Solvay)     | Cost Center              | <input checked="" type="checkbox"/> C_COSTCTR__CPFCTR1_2   |
| IMEP - ML Cost Comp. split (Solvay)               | Material                 | <input checked="" type="checkbox"/> C_MATPNT2__CPFCTR1_2   |
| IMEP - Other CC postings (Solvay)                 | Cost Center              | <input checked="" type="checkbox"/> C_COSTCTR__CPFCTR1_2   |

#### Exclude activity and Balancing movements (C\_EXACBMO)

# Table: /BIC/TC\_EXACBMO

|   | /BIC/C_EXACBMO | LANGU | TXTM                    |
|---|----------------|-------|-------------------------|
|   | EN             |       |                         |
| P | EN             |       | Produced Component      |
| X | EN             |       | Activity/Balancing mvts |

TRSF: ODSO DPCOPP01 -> ODSO DBCOPP04:

The flag is set to 'X' when :

- cost element, first 2 positions = '98'.
- index 1 = '9' and origin, first 2 positions = 'KL'.

```
"Set flag activity and balancing movements exclusion
IF <result_fields>-costelmnt(2) = '98'.
  <result_fields>-/bic/c_exacbmo = 'X'.
ELSEIF <result_fields>-/bic/c_index1 = 9
  AND <result_fields>-/bic/c_origin(2) = 'KL'.
  <result_fields>-/bic/c_exacbmo = 'X'.
ENDIF.
```

TRSF: ODSO DPCOPP01 -> ODSO DBCOPP01 & TRSF: APCOPP01 -> ABCOPP01 (Solvay):

The flag is set to 'X' when :

- cost element, first 2 positions = '98'.
- index 1 = '9' and origin, first 2 positions = 'KL'.

If index 1 = '3' and C\_PLANT and C\_ORIGIN have correspondance with the plant and material plant from DPCOPP01 / APCOPP01:

```
5      "Set flag activity and balancing movements exclusion
6      IF <RESULT_FIELDS>-COSTELMNT(2) = '98'.
7          <RESULT_FIELDS>-/BIC/C_EXACBMO = 'X'.
8      ELSEIF <RESULT_FIELDS>-/BIC/C_INDEX1 = 9
9          AND <RESULT_FIELDS>-/BIC/C_ORIGIN(2) = 'KL'.
10         <RESULT_FIELDS>-/BIC/C_EXACBMO = 'X'.
11     ELSEIF <RESULT_FIELDS>-/BIC/C_INDEX1 = 3.
12         * BCR - 25.06.2018 - Determination of Intermediates
13         READ TABLE ITB_EXACBMO TRANSPORTING NO FIELDS
14             WITH KEY /BIC/C_PLANT = <RESULT_FIELDS>-/BIC/C_PLANT
15                 /BIC/C_MATPNT2 = <RESULT_FIELDS>-/BIC/C_ORIGIN+12.
16         IF SY-SUBRC = 0.
17             <RESULT_FIELDS>-/BIC/C_EXACBMO = 'P'.
18         ENDIF.
19     ENDIF.
```

TRSF: ODSO APCOPP02 -> ODSO ABCOPP02 & TRSF: ODSO DPCOPP03 -> ODSO DBCOPP03:

The flag is set to 'P' when field index 1 = 3, fields plant and origin have correspondance with the plant and material plant from APCOPP02 / DPCOPP01 (for index = 1):



```

* Determination of Intermediates
] IF <RESULT_FIELDS>-/BIC/C_INDEX1 = 3.
  READ TABLE ITB_EXACBMO TRANSPORTING NO FIELDS
  WITH KEY /BIC/C_PLANT = <RESULT_FIELDS>-/BIC/C_PLANT
  /BIC/C_MATPNT2 = <RESULT_FIELDS>-/BIC/C_ORIGIN+12.
] IF SY-SUBRC = 0.
  <RESULT_FIELDS>-/BIC/C_EXACBMO = 'P'.|
  ENDIF.
ENDIF.

```

## Material Ledger Costs Split (K\_MLWRT)

For SOLVAY PF1 (DBCOPP01/04/06/15, ABCOPP01) and Flat Files (DBCOPP03, DBCOPP14), Material Ledger Costs are split between 3 components:

- Material Ledger Fixed Costs (K\_ML\_FC)
- Material Ledger Variable Costs (K\_ML\_VC)
- Material Ledger Dependencies (K\_ML\_DEP)

From Flat File, for index1 = 3 or index1 = 9, we check that K\_MLWRT is not null.

At all times,  $K\_MLWRT = K\_ML\_FC + K\_ML\_VC + K\_ML\_DEP$ .

In TRSF: RSDS DTS\_DPCOPP03\_0001 PC\_FILE -> ODSO DPCOPP03 & TRSF: RSDS DTS\_DPCOPP03\_0001 PC\_FILE -> ODSO DPCOPP03

If index1 = 1 or 2, the value of /BIC/K\_MLWRT is inverted:

```

] LOOP AT RESULT_PACKAGE ASSIGNING <RESULT_FIELDS>
  WHERE /BIC/C_INDEX1 = 1 OR /BIC/C_INDEX1 = 2.
  * FOR INDEX1 = 1 or 2, INVERT ENTERED VALUE
  <RESULT_FIELDS>-/BIC/K_MLWRT = - <RESULT_FIELDS>-/BIC/K_MLWRT.
  <RESULT_FIELDS>-/BIC/K_ML_FC = - <RESULT_FIELDS>-/BIC/K_ML_FC.
  <RESULT_FIELDS>-/BIC/K_ML_VC = - <RESULT_FIELDS>-/BIC/K_ML_VC.
  <RESULT_FIELDS>-/BIC/K_ML_DEP = - <RESULT_FIELDS>-/BIC/K_ML_DEP.
  ENLOOP.

```

## Origin Split (C\_ORIGIN)

In DBCOPP01/04 ABCOPP01 (SOLVAY PF1), Origin details have been split between 5 infoObjects:

- Origin Activity Type (C\_ORICACT)
- Origin Cost Center (C\_ORICCTR)
- Origin Order (C\_ORICORD)
- Origin WBS Element (C\_ORICWBS)
- Origin Material (C\_ORIMAT)

Their value is dependent on the Index1 value and C\_ORIGIN structure:

- For index1 = 1 or 3, C\_ORIMAT = C\_ORIGIN+12(18). For index1 = 5 or 7, it is the same but first we check that LOGSYS/C\_ORIGIN exists as C\_MATNR2.
- For index 1 = 5 or 7, C\_ORICACT = 0ACTTYPE (Activity Type) and C\_ORICCTR = C\_COSTCTR (Cost Center)
- For index1 = 9, depending on the first 2 characters of C\_ORIGIN:
  - When 'KL', C\_ORICCTR = C\_ORIGIN+6(10) / C\_ORICACT = C\_ORIGIN+16(6)
  - When 'KS', C\_ORICCTR = C\_ORIGIN+6(10)
  - When 'OR', C\_ORICORD = C\_ORIGIN+2(12)
  - When 'PR', C\_ORICWBS = C\_WBS\_EL2 where C\_WBS\_EL2\_\_C\_OBJNR = C\_ORIGIN+0(10)
  - When '00', C\_ORIMAT = C\_MATNR2

The same split has been applied to DBCOPP02 ABCOPP02 (RCS WP1), with simplified rules:

- For Index1 = 1 or 2 or 3, C\_ORIMAT = C\_ORIGIN+12(18).

- For index 1 = 5, C\_ORICACT = 0ACTTYPE (Activity Type) and C\_ORICCTR = C\_COSTCTR (Cost Center)

## Origin Texts

Origin Texts are collected from PF1 and WP1. Loads are included in Main Chains and thus happen daily on Current Month (and Previous Month from 01 to 08 of each month).

Because of a large amount of missing texts, a corrective DTP runs **every day** to collect texts from other Master Data, once more based on the first 2 characters of C\_ORIGIN (TRSF: IOBJ C\_ORIGIN -> IOBJ C\_ORIGIN):

- When 'KL', Short Text from C\_COSTCTR & ' / ' & Medium Text from 0ACTTYPE
- When 'KS', Medium Text from C\_COSTCTR
- When 'OR', Short Text from C\_COORDER
- When 'PR', Medium Text from C\_WBS\_EL2
- When '00', Medium Text from C\_MATNR2

There is also a special case where text exists but must be replaced: If INDEX1 = 5 and Text begins with 'ATY', apply the same text as 'KL' Origins.

## Origin Group (C\_HRKFT)

Origin Group is collected as a subchain of CO Key Subnumber (C\_COKSNB).

TRSF: ODSO DPCOPP01 -> ODSO DBCOPP04 & TRSF: ODSO DPCOPP01 -> ODSO DBCOPP01 & TRSF: APCOPP01 -> ABCOPP01 (Solvay):

```
IF <RESULT_FIELDS>-/BIC/C_COKSNB(4) <> '0000'.
  <RESULT_FIELDS>-/BIC/C_HRKFT =
  <RESULT_FIELDS>-/BIC/C_COKSNB(4) .
ENDIF.
```

Origin Group Texts are collected from SOLVAY PF1 by datasource DTS\_ZBW\_V\_TKKH2 and from RHODIA with datasource DTS\_ZV\_TKKH2.

Origin Group is also collected as attribute of C\_ORIMAP3, infoobject created in reference to C\_MATPNT3 and identical to C\_ORIMAT in our data. That Origin Group, C\_ORIMAP3\_\_C\_HRKFT, is collected from SOLVAY PF1 by datasource DTS\_MBEW\_01.

## Total Actual Quantity Conversion

Total Actual Quantity is converted to fill the values of the following attributes of Activities DSOs (DBCOPP04, DBCOPP01 & ABCOPP01 for SOLVAY PF1, DBCOPP02 & ABCOPP02 for RCS WP1):

- Total Actual Quantity Standard (K\_ACQTSTD)
- Total Actual Quantity in EP (K\_ACQTYEP)
- Total Actual Quantity in Scope 1 in CO2 (K\_AQT1CO2)
- Total Actual Quantity in Scope 2 in CO2 (K\_AQT2CO2)
- Total Actual Quantity in Scope 3 in CO2 (K\_AQT3CO2)

Conversion is based on *Real Factors* DSOs (DBCOPP10 for PF1, DBCOPP11 for WP1) and *ZBW\_V\_CO2\_COEFFS* DSOs (DBCOPP07 for PF1, DBCOPP08 for WP1).

If coefficient *Real Factor Conversion* (K\_RFACONV) exists in *Real Factors* DSO, TAQ Standard and TAQ in EP are calculated using that coefficient. Otherwise, they are calculated using *Local To Standard UoM Conversion* (K\_UOMCONV) and *Primary Energy Coefficient* (K\_ENGCOEF), respectively, from *ZBW\_V\_CO2\_COEFFS* DSO.

TAQ in CO2 are always calculated using coefficients *CO2 Emission Scope* (K\_CO2EMI1/2/3) from *ZBW\_V\_CO2\_COEFFS* DSO if they exist.

## Master Data Cost Element (0COSTELMNT)

CHEFXCS-ALL Hierarchy Levels are stored in Master Data Cost Element, in attributes C\_CELTHX1 to C\_CELTHX5 in transformation TRSF: 0COSTELMNT -> 0COSTELMNT.

Levels are stored as follow:

| Attribute | Hierarchy Level | Example    |
|-----------|-----------------|------------|
| C_CELTHX1 | 2               | XCS-SELL   |
| C_CELTHX2 | 3               | XCS-SELLA  |
| C_CELTHX3 | 4               | XCS-SELLB  |
| C_CELTHX4 | 5               | XCS-SELLC  |
| C_CELTHX5 | 6               | XCS-SALE01 |

Hierarchy Level 1 is always "XCS-ALL" and thus not stored.

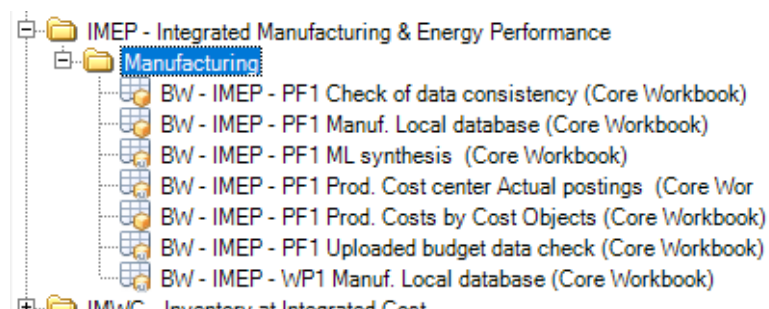
## Reporting

| Query                   | Query name                                   | documentation |
|-------------------------|----------------------------------------------|---------------|
| BW_QRY_MVCOPP01_0009    | IMEP - WP1 Manuf. Local Report               |               |
| BW_QRY_MVCOPP01_0010    | IMEP - Manuf. Mthly/Cum. N/N-1 Local Report  |               |
| BW_QRY_MVCOPP01_0011    | IMEP - PF1 Manuf. Local database             |               |
| BW_QRY_MVCOPP01_0012    | IMEP - PF1 Budget data check                 |               |
| BW_QRY_MVCOPP01_0013    | IMEP - PF1 Check of data consistency         |               |
| BW_QRY_MVCOPP01_0014    | IMEP - PF1 SD Indus. report - IMEP & ML data |               |
| BW_QRY_MVCOPP01_0015    | IMEP - PF1 SP database                       |               |
| BW_QRY_MVCOPP01_0016    | IMEP - PF1 Cost center Actual postings       |               |
| BW_QRY_MVCOPP01_0017    | IMEP - PF1 SD Steam costs database           |               |
| BW_QRY_MVCOPP01_0018    | IMEP - PF1 ML synthesis                      |               |
| BW_QRY_MVCOPP01_0019    | IMEP - PF1 SD Stock effect - ML & IMEP data  |               |
| BW_QRY_MVCOPP01_0020    | IMEP - PF1 SD Act. vs Bdgt Dashboard         |               |
| BW_QRY_MVCOPP01_0021    | IMEP - WP1/PF1 data for PCF OH               |               |
| DE_BW_QRY_MVCOPP01_0021 | IMEP - WP1/PF1 data for PCF Talend           |               |
| DI_BW_QRY_MVCOPP01_0020 | IMEP - PF1 SD Act. vs Bdgt Dashboard         |               |
| QV_BW_QRY_MVCOPP01_0001 | IMEP - Data for 1CP QS                       |               |

[IMEP - Integrated Manufacturing & Energy Performance](#)

IMEP Glossary : [IMEP - Characteristics](#)

## Workbook



ZR\_RCS\_CA\_M55  
 ZR\_RCS\_CA\_M55 0000000711  
 BW\_WBK\_CO\_0024  
 BW\_WBK\_CO\_0021  
 BW\_WBK\_CO\_0026  
 BW\_WBK\_CO\_0025  
 BW\_WBK\_CO\_0029  
 BW\_WBK\_CO\_0023  
 BW\_WBK\_CO\_0019  
 ZR\_RCS\_CA\_M54

| Workbook       | Query associated     |
|----------------|----------------------|
| BW_WBK_CO_0019 | BW_QRY_MVCOPP01_0009 |
| BW_WBK_CO_0020 | BW_QRY_MVCOPP01_0010 |
| BW_WBK_CO_0021 | BW_QRY_MVCOPP01_0011 |
| BW_WBK_CO_0024 | BW_QRY_MVCOPP01_0013 |

|                |                      |
|----------------|----------------------|
| BW_WBK_CO_0023 | BW_QRY_MVCOPP01_0012 |
| BW_WBK_CO_0025 | BW_QRY_MVCOPP01_0016 |
| BW_WBK_CO_0026 | BW_QRY_MVCOPP01_0018 |

## "Special" KPIs

| Short description                       | Explanation                                                                 | Formula                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Commer                                                                                                                                                                                                                           |
|-----------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AUQ <b>AI</b>                           | Actual Unit Quantity (in French QUR) <b>i</b><br><b>n Active Ingredient</b> | <p><u>Total Actual Qty in AI</u> : ratio K_AQTY_AI, origin field ACT_QTY_AI of table ZWPPMCKOST</p> <p><u>Qty Produced in AI</u> : ration K_QTYPRAI, origin field MEGP_AI</p> <p>The produced quantity in AI is found only for Index 1 = '1'. The quantity has to be used to calculate the coefficient on others indexes</p>                                                                                                                                                                                                                                                                                                                           | <p>Restricted Keyfigure f Quantity P<br/>uced in AI<br/>with Const<br/>Selection f<br/>all<br/>characteris<br/>except Per<br/>/GBU<br/>/Companyt<br/>e<br/>/PlantMate</p> <p>Calculated Keyfigure f<br/>AUQ AI</p>               |
| QUS<br>(Std<br>consumpt. for<br>1 unit) | Standard Consumption factor of the item for one unit produced               | <p><b>Formula</b></p> <p>Formula:</p> <pre>NOERR(-NODIM('K_STQTSCE' /<br/>"[BW_RKF_MVCOPP01_0092] Produced Material - SCE Std Qty"))</pre> <p><u>Std Qty SCE</u>: ratio K_STQTSCE, origin field MEVS5 of table ZWPPMCKOST</p> <p><u>Std Qty SCE (produced material)</u>: ratio K_STQTSCE limited on index 1 = '1' (Produced material)</p>                                                                                                                                                                                                                                                                                                              | <p>Restricted Keyfigure f<br/>Std Qty SC<br/>(produced<br/>material) w<br/>Constant<br/>Selection f<br/>all<br/>characteris<br/>except Per<br/>/GBU<br/>/Companyt<br/>e<br/>/PlantMate</p> <p>Calculated Keyfigure f<br/>QUS</p> |
| QUR<br>(Act<br>consumpt. for<br>1 unit) | Actual Consumption factor of the item for one unit produced                 | <p> <b>Formula: BW_CKF_MVCOPP01_0008 - QUR (Act consumpt. for 1 unit)</b></p> <p><b>Formula</b></p> <p>Formula:</p> <pre>NOERR(-NODIM('K_ACT_QTY' /<br/>"[BW_RKF_MVCOPP01_0091] Produced Material - Produced Qty"))</pre> <p>-</p> <p><u>Total Actual Quantity</u> : ratio K_ACT_QTY, origin field ACT_QTY of table ZWPPMCKOST</p> <p><u>Produced Quantity</u> : ratio K_PRODQT, origin field MEGP of table ZWPPMCKOST</p> <p>The produced quantity is found only for Index 1 = '1'. The quantity has to be used to calculate the coefficient on others indexes</p> | <p>Restricted Keyfigure f<br/>Produced<br/>Quantity w<br/>Constant<br/>Selection f<br/>all<br/>characteris<br/>except Per<br/>/GBU<br/>/Companyt<br/>e<br/>/PlantMate</p> <p>Calculated Keyfigure f<br/>QUR</p>                  |

|                                   |                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                |
|-----------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CUS<br>(Std unit cost for 1 unit) | Standard unitary cost of the item for one unit produced     | <p> <b>Formula: BW_CKF_MVCOPP01_0010 - CUS (Std unit cost for 1 unit)</b></p> <hr/> <p><b>Formula</b></p> <p>Formula:</p> <pre>NOERR(-NODIM('K_STCSSCE' / "[BW_RKF_MVCOPP01_0092] Produced Material - SCE Std Qty"))</pre> <p><u>Std Cost SCE</u>: ratio K_STCSSCE, origin field WKVS5 of table ZWPPMCKOST</p> <p><u>Std Qty SCE (produced material)</u>: see upper definition</p>                                                       | Calculated Keyfigure f CUS                                                                                                                                                                                                                     |
| CUR                               | Actual unitary cost of the item for one unit produced       | <p> <b>Formula: BW_CKF_MVCOPP01_0011 - CUR</b></p> <hr/> <p><b>Formula</b></p> <p>Formula:</p> <pre>-NODIM('K_ACT_CST' / "[BW_RKF_MVCOPP01_0091] Produced Material - Produced Qty")</pre> <p><u>Actual Cost</u>: ratio K_ACT_CST, origin field WKGIB of table ZWPPMCKOST</p> <p><u>Produced Quantity &amp; Lot Size</u>: see upper definition</p>                                                                                        | Calculated Keyfigure f CUR                                                                                                                                                                                                                     |
| SUQ AI                            | Standard Unit Quantity (in French QUS) in Active Ingredient | <p> <b>Formula: BW_CKF_MVCOPP01_0013 - SUQ in AI (Std unit qty)</b></p> <hr/> <p><b>Formula</b></p> <p>Formula:</p> <pre>NOERR(-NODIM('K_SCEQ_AI' / "[BW_RKF_MVCOPP01_0094] Produced Material - SCE Std Qty in AI"))</pre> <p><u>Std Qty SCE in AI</u>: ratio K_SCEQ_AI, origin field MEVS5_AI of table ZWPPMCKOST</p> <p><u>Std Qty SCE in AI (produced material)</u>: ratio K_SCEQ_AI limited on index 1 = '1' (Produced material)</p> | <p>Restricted Keyfigure f Std Qty SC in AI with Constant Selection f all characteris except Per /GBU /Companyt e /PlantMate</p> <p>Calculated Keyfigure f SUQ AI</p>                                                                           |
| Lot Size                          | Lot Size used for calculating standard cost                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>This KPI is coming from ZWPPMCKOST table. T value is repeated on each lines.</p> <p>Then in BV for aggregated analysis, the sum of all values is displayed which is not correct.</p> <p>The Lot Size should be : masterdata information</p> |
| ML CUR                            |                                                             | <p> <b>Formula: BW_CKF_MVCOPP01_0016 - ML CUR</b></p> <hr/> <p><b>Formula</b></p> <p>Formula:</p> <pre>NOERR('K_MLWRT' / "[BW_RKF_MVCOPP01_0091] Produced Material - Produced Qty")</pre>                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                |

|          |  |                                                                                                                                   |  |
|----------|--|-----------------------------------------------------------------------------------------------------------------------------------|--|
| ML Price |  |  <b>Formula: BW_CKF_MVCOPP01_0017 - ML Price</b> |  |
|          |  | <div>Formula</div> <div>Formula:</div> <div>NOERR('K_MLWRT' / 'K_ACT_QTY')</div>                                                  |  |

## Dependencies with other applications

Open Hub:

|                                             |                                 |
|---------------------------------------------|---------------------------------|
| IMEP - WP1/PF1 data for PCF OH              | OH_IMEP1                        |
| DTP: BW_QRY_MVCOPP01_0021 -> OH_IMEP1       | DTP_04B9BB0HZDMR47YT81QSNFSS2   |
| TRSF: BW_QRY_MVCOPP01_0021 -> OH_IMEP1      | 0EY9Q65NWO029MZXP8IXQS2NZZS52AI |
| IMEP - WP1/PF1 data for PCF OH (Core Query) | BW_QRY_MVCOPP01_0021            |

## Data loadings

### Main Chains

#### SAP events detail

PF1:

Z1C\_RUNDMC\_KOST for current month update

Z1C\_RUNDMC\_KOST\_PREV\_MTH for previous month update

WP1:

ZWPP\_RUNDMC\_KOST for current month update

ZWPP\_RUNDMC\_KOST\_PREV\_MTH for previous month update

Flat Files:

PC\_CO\_IMEP\_15 for every Budget update

PC\_CO\_IMEP\_32 for every CC Postings update

No chain runs on Sunday.

| Process Chain                            | Code          | Type | Frequency                       | Comments                                                                                                                                                                                                                                                                                                          |
|------------------------------------------|---------------|------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IMEP: META - T - Current month (Solvay)  | PC_CO_IMEP_01 | MAIN | Daily not sunday                | <p>This chain is starting when event <b>Z1C_RUNDMC_KOST</b> is received from Solvay PF1.</p> <p>Global Filter IMEP/ SOLV_LOAD/1 is used in the decision block.</p> <p>Usually starts around 1:25 am (CET)</p>                                                                                                     |
| IMEP: META - T - Previous month (Solvay) | PC_CO_IMEP_20 | MAIN | Days 01 to 08, 2 times per day. | <p>This chain is starting when event <b>Z1C_RUNDMC_KOST_PREV_MTH</b> is received from Solvay PF1.</p> <p>Global Filter IMEP/SOLV_LOAD/2 is used in the decision block.</p> <p>DBCOPP10 (Solvay Real Factors) is updated and activated in this PC only.</p> <p>Usually starts around 7:40 am and 1:30 pm (CET)</p> |

|                                                            |                   |      |                                 |                                                                                                                                                                                                          |
|------------------------------------------------------------|-------------------|------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IMEP: META - T - Current month (RCS)                       | PC_CO_IM<br>EP_08 | MAIN | Daily not sunday                | This chain is starting when event <b>ZWPP_RUNDMC_KOST</b> is received from RCS WP1.<br><br>Global Filter IMEP/RCS_LOAD/1 is used in the decision block.<br><br>Usually starts around 00:15 am (CET)      |
| IMEP: META - T - Previous month (RCS)                      | PC_CO_IM<br>EP_25 | MAIN | 01 to 08                        | This chain is starting when event <b>ZWPP_RUNDMC_KOST_PREV_MTH</b> is received from RCS WP1.<br><br>Global Filter IMEP/RCS_LOAD/2 is used in the decision block.<br><br>Usually starts around 3:00 (CET) |
| IMEP: META - T - Planned data for Budget (Flat Files)      | PC_CO_IM<br>EP_15 | MAIN | Manually (Trigger)              | This chain is starting when event <b>PC_CO_IMEP_15</b> is received from ZBW_IMEP002 Program.                                                                                                             |
| IMEP: META - D - Cost Object Hierarchy (DBCOPP13/C_KSTRG4) | PC_CO_IM<br>EP_26 | MAIN | Daily (not saturday and sunday) | This chain is starting at 5:30 (CET)                                                                                                                                                                     |
| IMEP: TXT - D - R3 Establishment                           | PC_CO_IM<br>EP_27 | MAIN | Daily (not saturday and sunday) | This chain is starting every day at 8:05 (CET)                                                                                                                                                           |
| IMEP: META - W - Standard Key Figure (Solvay)              | PC_CO_IM<br>EP_30 | MAIN | Weekly                          | This chain is starting at 8:00 (CET)                                                                                                                                                                     |
| IMEP: META - T - Cost Center postings (Flat Files)         | PC_CO_IM<br>EP_32 | MAIN | Manually (Trigger)              | This chain is starting when event <b>PC_CO_IMEP_32</b> is received from ZBW_IMEP002 Program.                                                                                                             |
| IMEP: TD - M - Historical Data (Solvay)                    | PC_CO_IM<br>EP_37 | MAIN | Monthly                         | This chain is starting every 24th of the month at 1:00 (CET)<br><br>Delete obsolete periods in dso / cubes with program ZBW_IMEP003 & variant ZVAR_OBS_SOLV1                                             |
| IMEP: TD - M - Historical Data (RCS)                       | PC_CO_IM<br>EP_38 | MAIN | Monthly                         | This chain is starting every 24th of the month at 1:00 (CET)<br><br>Delete obsolete periods in dso / cubes with program ZBW_IMEP003 & variant ZVAR_OBS_RCS                                               |
| IMEP: TXT - W - Texts (RCS & Solvay)                       | PC_CO_IM<br>EP_39 | MAIN | Weekly                          | This chain is starting every Saturday at 5:00 (CET). It loads texts for C_ORIGIN, C_FEVOR and C_DISPO.                                                                                                   |

## Sub Chains

| Process Chain                                        | Code              | Type     | Main chain        | Comments                                                                                                                                                                                                  |
|------------------------------------------------------|-------------------|----------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IMEP: MD - Referential & Conversion factors (Solvay) | PC_CO_I<br>MEP_02 | subchain | PC_CO_I<br>MEP_01 | Data required for Business Rules                                                                                                                                                                          |
| IMEP: TD - Delete period in DSOs (Current) (Solvay)  | PC_CO_I<br>MEP_03 | subchain | PC_CO_I<br>MEP_01 | Before loading a period, the same period has to be deleted from target DSOs. The same is done in cubes using a Delete Overlapping DTP after they are loaded.<br><br>Global Filter IMEP/SOLV_DEL/1 is used |
| IMEP: TD - Propagation (Current) (Solvay)            | PC_CO_I<br>MEP_04 | subchain | PC_CO_I<br>MEP_01 | Load propagation dso solvay<br><br>Global Filter IMEP/ SOLV_LOAD/1 is used to limit the InfoPackage                                                                                                       |
| IMEP: TD - Business (Current) (Solvay)               | PC_CO_I<br>MEP_05 | subchain | PC_CO_I<br>MEP_01 | Load business dso solvay                                                                                                                                                                                  |
| IMEP: TD - Reporting (Current) (Solvay)              | PC_CO_I<br>MEP_06 | subchain | PC_CO_I<br>MEP_01 | Load cubes solvay                                                                                                                                                                                         |
| IMEP: MD - Texts (Solvay)                            | PC_CO_I<br>MEP_07 | subchain | PC_CO_I<br>MEP_01 | Master data text solvay                                                                                                                                                                                   |
| IMEP: MD - Referential & Conversion factors (RCS)    | PC_CO_I<br>MEP_09 | subchain | PC_CO_I<br>MEP_08 | Data required for Business Rules                                                                                                                                                                          |
| IMEP: TD - Delete period in targets (Current) (RCS)  | PC_CO_I<br>MEP_10 | subchain | PC_CO_I<br>MEP_08 | Before loading a period, the same period has to be deleted from targets (DSO/Cubes)<br><br>Global Filter IMEP/RCS_DEL/1 is used                                                                           |
| IMEP: TD - Propagation (Current) (RCS)               | PC_CO_I<br>MEP_11 | subchain | PC_CO_I<br>MEP_08 | Load propagation dso rhodia<br><br>Global Filter IMEP/RCS_LOAD/1 is used to limit the InfoPackage                                                                                                         |
| IMEP: TD - Business (Current) (RCS)                  | PC_CO_I<br>MEP_12 | subchain | PC_CO_I<br>MEP_08 | Load business dso rhodia                                                                                                                                                                                  |
| IMEP: TD - Reporting (Current) (RCS)                 | PC_CO_I<br>MEP_13 | subchain | PC_CO_I<br>MEP_08 | Load rhodia cube                                                                                                                                                                                          |

|                                                         |                   |          |                   |                                                                                                                                                                                                                                                              |
|---------------------------------------------------------|-------------------|----------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IMEP: MD - Texts (RCS)                                  | PC_CO_I<br>MEP_14 | subchain | PC_CO_I<br>MEP_08 | This load could be done once a week or once a month                                                                                                                                                                                                          |
| IMEP: TD - Propagation (Flat Files)                     | PC_CO_I<br>MEP_16 | subchain | PC_CO_I<br>MEP_15 | Propagation dso flat file                                                                                                                                                                                                                                    |
| IMEP: TD - Business (Flat Files)                        | PC_CO_I<br>MEP_17 | subchain | PC_CO_I<br>MEP_15 | Business dso flat file                                                                                                                                                                                                                                       |
| IMEP: TD - Reporting (Flat Files)                       | PC_CO_I<br>MEP_18 | subchain | PC_CO_I<br>MEP_15 | Reporting flat file                                                                                                                                                                                                                                          |
| IMEP: TD - Delete period in DSOs (Previous) (Solvay)    | PC_CO_I<br>MEP_21 | subchain | PC_CO_I<br>MEP_20 | Before loading a period, the same period has to be deleted from target DSOs. The same is done in cubes using a Delete Overlapping DTP after they are loaded.<br><br>Global Filter IMEP/SOLV_DEL/2 is used<br><br>Program ZBW_IMEP003 variant ZVAR_DEL_SOLV2. |
| IMEP: TD - Reporting (Previous) (Solvay)                | PC_CO_I<br>MEP_22 | subchain | PC_CO_I<br>MEP_20 | load solvay cube for previous period                                                                                                                                                                                                                         |
| IMEP: TD - Reporting (Previous) (RCS)                   | PC_CO_I<br>MEP_23 | subchain | PC_CO_I<br>MEP_25 | load rhodia cube for previous period                                                                                                                                                                                                                         |
| IMEP: TD - Delete period in targets (Previous) (RCS)    | PC_CO_I<br>MEP_24 | subchain | PC_CO_I<br>MEP_25 | Before loading a period, the same period has to be deleted from targets (DSO/Cubes)<br><br>Global Filter IMEP/RCS_DEL/2 is used<br><br>program ZBW_IMEP003 variant ZVAR_DEL_RCS2                                                                             |
| IMEP: TXT - Cost Element (through 0STKEYFIG) (Solvay)   | PC_CO_I<br>MEP_28 | subchain | PC_CO_I<br>MEP_30 | Loads 0STKEYFIG Texts and copy them in 0COSTELMNT for Controlling Area CHEF                                                                                                                                                                                  |
| IMEP: MD - Standard Key Figure (Solvay)                 | PC_CO_I<br>MEP_29 | subchain | PC_CO_I<br>MEP_30 | Loads 0STKEYFIG Attributes                                                                                                                                                                                                                                   |
| IMEP: TD - Delete period in DSOs for Budget (Flat File) | PC_CO_I<br>MEP_31 | subchain | PC_CO_I<br>MEP_15 | Before loading a period, the same period has to be deleted from targets (DSO/Cubes)<br><br>Global Filter IMEP/FF_DATA/4 is used for Version, 5 for Plants, and 6 for Fiscal Year.<br><br>program ZBW_IMEP003 variant ZVAR_DEL_FF1                            |
| IMEP: TD - Delete period in DSOs for CC postings (FF)   | PC_CO_I<br>MEP_33 | subchain | PC_CO_I<br>MEP_32 | Before loading a period, the same period has to be deleted from targets (DSO/Cubes)<br><br>Global Filter IMEP/FF_DATA/4 is used for Version, 5 for Plants, and 6 for Fiscal Year.<br><br>program ZBW_IMEP003 variant ZVAR_DEL_FF2                            |
| IMEP: TD - Propagation (CC postings) (Flat Files)       | PC_CO_I<br>MEP_34 | subchain | PC_CO_I<br>MEP_32 |                                                                                                                                                                                                                                                              |
| IMEP: TD - Business (CC postings) (Flat Files)          | PC_CO_I<br>MEP_35 | subchain | PC_CO_I<br>MEP_32 |                                                                                                                                                                                                                                                              |
| IMEP: TD - Reporting (CC postings) (Flat Files)         | PC_CO_I<br>MEP_36 | subchain | PC_CO_I<br>MEP_32 |                                                                                                                                                                                                                                                              |
| IMEP: TD - Business (Previous) (Solvay)                 | PC_CO_I<br>MEP_40 | subchain | PC_CO_I<br>MEP_20 |                                                                                                                                                                                                                                                              |
| IMEP: TD - Propagation (Previous) (Solvay)              | PC_CO_I<br>MEP_41 | subchain | PC_CO_I<br>MEP_20 | Global Filter IMEP/ SOLV_LOAD/2 is used to limit the InfoPackage                                                                                                                                                                                             |
| IMEP: TD - Delete period in DSOs (Previous) (Solvay)    | PC_CO_I<br>MEP_21 | subchain | PC_CO_I<br>MEP_20 | program ZBW_IMEP003 variant ZVAR_DEL_SOLV2                                                                                                                                                                                                                   |
| IMEP: TD - Reporting (Previous) (Solvay)                | PC_CO_I<br>MEP_22 | subchain | PC_CO_I<br>MEP_20 | load cubes solvay                                                                                                                                                                                                                                            |
| IMEP: TD - Propagation (Previous) (RCS)                 | PC_CO_I<br>MEP_42 | subchain | PC_CO_I<br>MEP_25 | Global Filter IMEP/ RCS_LOAD/2 is used to limit the InfoPackage                                                                                                                                                                                              |
| IMEP: TD - Business (Previous) (RCS)                    | PC_CO_I<br>MEP_43 | subchain | PC_CO_I<br>MEP_25 |                                                                                                                                                                                                                                                              |
| IMEP: TD - Reporting (Previous) (RCS)                   | PC_CO_I<br>MEP_23 | subchain | PC_CO_I<br>MEP_25 |                                                                                                                                                                                                                                                              |
| IMEP: TD - Delete period in targets (Previous) (RCS)    | PC_CO_I<br>MEP_24 | subchain | PC_CO_I<br>MEP_25 | program ZBW_IMEP003 variant ZVAR_DEL_RCS2                                                                                                                                                                                                                    |

### Loading frequency

IMEP is loaded daily, excluding Sundays. Previous month is loaded from 01 to 08 only while Current month is loaded from 01 to the end of month.

Events on Solvay ECC (PF1) and RCS (WP1) start BW Process Chains. These events are not expected to run on Sundays.

Flat Files (Excel file) can be loaded manually in transaction ZIMEP\_FILE, at will.



## Global Filters (C\_GLBFLT) used in Chains

| Stream | Rule       | Explanation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IMEP   | RCS_LOAD   | <p>Period (YYYYPPP) to load, RCS. NO_LOAD to avoid loadings</p> <p><b>Counter 1</b> = "Current Period" used by chains PC_CO_IMEP_01/20.</p> <p><b>Counter 2</b> = "Previous Period" used by chains PC_CO_IMEP_08/25.</p> <p>Do not change active flag (Active = Y)</p> <p>This variable is used in decision block</p>                                                                                                                                                                                                                                                                                                                                      |
| IMEP   | RCS_DEL    | <p>Period (YYYYPPP) to delete, RCS DSO/Cube. NO_DEL to avoid</p> <p><b>Counter 1</b> = "Current Period" used by chains PC_CO_IMEP_01/20.</p> <p><b>Counter 2</b> = "Previous Period" used by chains PC_CO_IMEP_08/25.</p> <p>Do not change active flag (Active = Y)ZBW_IMEP003</p>                                                                                                                                                                                                                                                                                                                                                                         |
| IMEP   | RCS_HISTO  | <p><b>Counter 1</b> = Number of Year to keep in all DSOs/Cubes RCS</p> <p><b>Counter 2</b> = Delete all data in all DSOs/Cubes RCS older than</p> <p>The counter 1 is entered manually, it is a number of years to keep in all DSOs and Cubes.</p> <p>If '3' is entered, 3 full years + current year are kept.</p> <p>The counter 2 is determined within program ZBW_IMEP001 depending of the loaded period and the counter 1.</p> <p>Example : we are the 01/08/2016, the period 007.2016 is loaded. As the counter 1 is '3', the calculated counter 2 is 001.2013.</p> <p>All period previous to 001.2013 will be deleted via the main process chain</p> |
| IMEP   | SOLV_LOAD  | Same explanation as RCS_LOAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| IMEP   | SOLV_DEL   | Same explanation as RCS_DEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| IMEP   | SOLV_HISTO | Same explanation as RCS_HISTO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| IMEP   | FF_DATA    | <p><b>Counter 1</b> = Input filename for ZBW_IMEP002 program.</p> <p><b>Counter 2</b> = Store actual delta queue of running process chain PC_CO_IMEP_15.</p> <p><b>Counter 3</b> = Total counter for ZBW_IMEP002 program file loading.</p> <p><b>Counter 4</b> = Version to be updated by program ZBW_IMEP002</p> <p><b>Counter 5</b> = List of Plants to be updated by program ZBW_IMEP002 - Format: "PL1/PL2/PL3/...", up to 120 characters</p> <p><b>Counter 6</b> = Fiscal Year to be updated by program ZBW_IMEP002</p> <p><u>Data in counter 4 to 6 are read in program ZBW_IMEP003 to define Selective Deletion perimeter before import.</u></p>    |

## ABAP Programs used in Chains

| Program | Variant | Explanation |
|---------|---------|-------------|
|---------|---------|-------------|

|                                           |                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ZBW_DEL<br>DIM                            | ZVAR_IM<br>EP_01<br>ZVAR_IM<br>EP_02<br>ZVAR_IM<br>EP_03<br>ZVAR_IM<br>EP_04<br>ZVAR_IM<br>EP_05<br>ZVAR_IM<br>EP_06                                    | Existing program, reused to clean cube dimensions. It delete unused dimension elements                                                                                                                                                                                                                                                              |
| <del>ZBW_IME<br/>P001</del><br>(Obsolete) | <del>ZVAR_D<br/>EL_RCS<br/>ZVAR_D<br/>EL_SOLV<br/><br/>ZVAR_Q<br/>BS_RCS<br/>ZVAR_Q<br/>BS_SOLV<br/><br/>ZVAR_P<br/>ER_RCS<br/>ZVAR_P<br/>ER_SOLV</del> | <p>Program created for the projet to :</p> <ul style="list-style-type: none"> <li><del>Determine period to load from source system (and period to delete, obsolete periods)</del></li> <li><del>Delete exercice/period (previously to new load)</del></li> <li><del>Delete obsolete periods (to keep a constant perimeter of data)</del></li> </ul> |
| ZBW_IME<br>P002                           |                                                                                                                                                         | <p>Program created for the project to allow users to load flat files to integrate additional IMEP data.</p> <p>Program is not used in Process Chain, but launches event PC_CO_IMEP_15 or PC_CO_IMEP_32, starting PC of the same name.</p>                                                                                                           |

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ZBW_IME<br>P003 | ZVAR_D<br>EL_RCS1<br>ZVAR_D<br>EL_RCS2<br><del>ZVAR_D</del><br><del>EL_RCS3</del><br><br><del>ZVAR_D</del><br><del>EL_RCS4</del><br><br>ZVAR_D<br>EL_SOLV1<br><br>ZVAR_D<br>EL_SOLV2<br><br>ZVAR_D<br>EL_SOLV3<br><br>ZVAR_D<br>EL_SOLV4<br><br>ZVAR_O<br>BS_RCS1<br>ZVAR_O<br>BS_RCS2<br>ZVAR_O<br>BS_SOL<br>V1<br><del>ZVAR_O</del><br><del>BS_SOL</del><br><del>V2</del><br>ZVAR_P<br>ER_RCS1<br><br>ZVAR_P<br>ER_RCS2<br><br>ZVAR_P<br>ER_SOL<br>V1<br>ZVAR_P<br>ER_SOL<br>V2<br><br>ZVAR_D<br>EL_FF1<br>ZVAR_D<br>EL_FF2 | <p>Program created for the projet to :</p> <ul style="list-style-type: none"> <li>• Determine period to load from source system (and period to delete, obsolete periods)</li> <li>• Delete exercise/period (previously to new load)</li> <li>• Delete obsolete periods (to keep a constant perimeter of data)</li> </ul> <p>Program replaces ZBW_IMEP001 and takes into account whether Current Month M (variants XXX1/XXX3) or Previous Month M-1 (variants XXX2/XXX4) is being reloaded.</p> <p>Variables ZVAR_DEL_FF* used for Flat File imports, modifying filters so that data is deleted in Budget DSOs and Cubes depending on Version C_VERSF, Fiscal Year 0FISCYEAR and Plant C_PLANT rather than Period 0FISCPER.</p> <p>Two instances of the program cannot run at the same time, to avoid incorrect data initialization in C_GLBFILTER.</p> |
| ZBW_IME<br>P004 | ZVAR_C<br>OPP01 Z<br>VAR_CO<br>PP02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>Program created for the project to delete non-current data (M-2 and older) from InfoProviders. It is only used as of now to clear DBCOPP01/CRCOPP01 after the historical data has been sent to history flow (DBCOPP04) for SOLVAY PF1 and to clear DBCOPP02/CRCOPP02 after the hsitorical data has been sent to history flow (DBCOPP05) for RCS WP1.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

#### Further explanations for program ZBW\_IMEP001

### IMEP - Options for IMEP loading

If Initialization is selected, below parameters are ignored

☐ Initialization?

Which flow is concerned ?

☒ Solvay  
☐ RCS

Which action?

☒ 1) Get period to load  
 From  to , load previous period.

☐ 2) Delete period  
☐ 3) Delete obsolete periods

To be filed for action 2) or 3)

DSOs/Cubes list:

☐ Display Application Log

If 'X', nothing is done.  
The variables in C\_GLBFLT are not changed.  
This option is helpful to use the main process chain for initialization or reloadings.

If 'Solvay', only Solvay's variables are changed  
Stream 'IMEP', rules 'SOLV\*'  
If 'RCS', only RCS's variables are changed  
Stream 'IMEP', rules 'RCS\*'

Action 1)  
If we are D1 to D4, the period determine is the previous one  
Example 01/08/2016 => period 007.2016  
Variables updated : Stream 'IMEP'  
- rules 'RCS\_LOAD' or 'SOLV\_LOAD'  
- rules 'RCS\_DEL' or 'SOLV\_DEL'  
- rules 'RCS\_HISTO' or 'SOLV\_HISTO', counter '002'

Else NO\_LOAD  
Variables updated : Stream 'IMEP'  
- rules 'RCS\_LOAD' or 'SOLV\_LOAD' with NO\_LOAD  
- rules 'RCS\_DEL' or 'SOLV\_DEL' with NO\_DEL  
- rules 'RCS\_HISTO' or 'SOLV\_HISTO', counter '002', with NO\_HISTO

Action 2)  
Delete period(s) reading variable Stream 'IMEP' / rules 'RCS\_DEL' or 'SOLV\_DEL'  
And lists of DSOs/Cubes entered in the selection screen

Action 3)  
Delete previous periods reading variable Stream 'IMEP' / rules 'RCS\_HISTO' or 'SOLV\_HISTO', and lists of DSOs/Cubes entered in the selection screen

## Further explanations for program ZBW\_IMEP002

### Interface

### IMEP - Loading of flat files

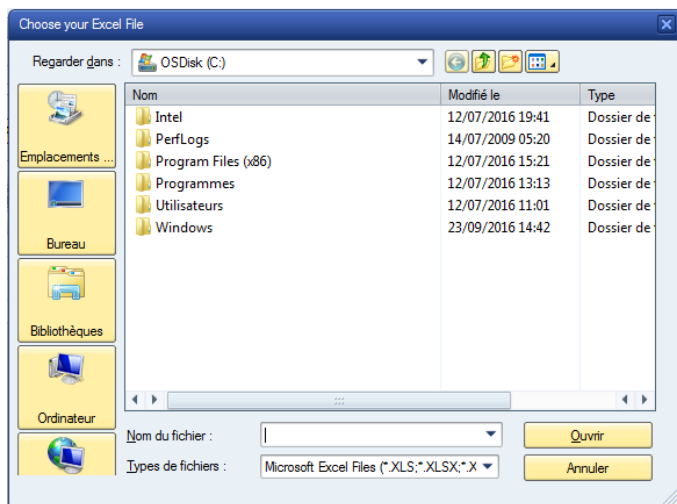
☒ Import Budget  
☐ Import CC Postings

Choose the file to load

File to load:

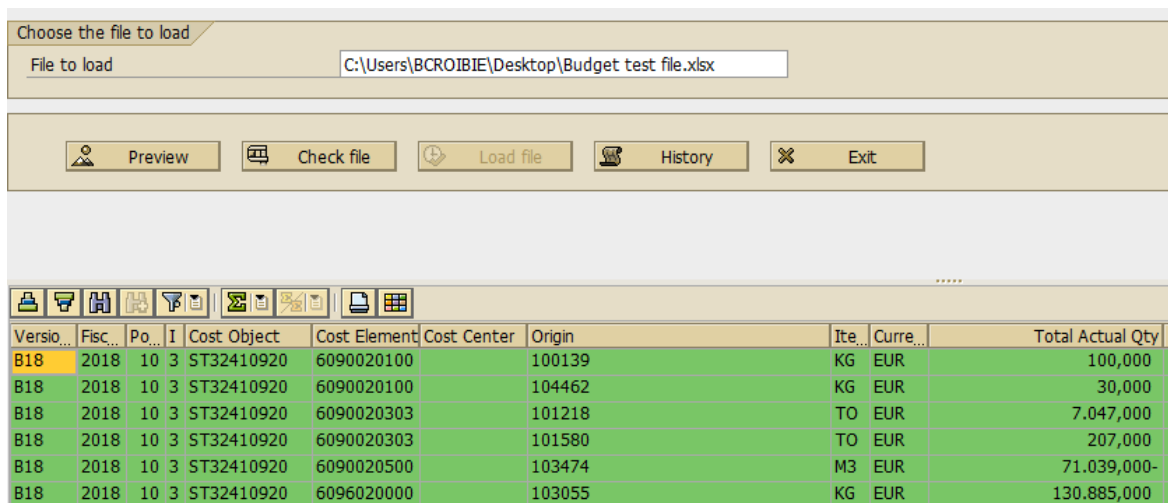
User must first indicate whether he is loading a Planned Data **Budget File** (Target: CRCOPP03, Event/Process Chain launched: PC\_CO\_IMEP\_15) or a Cost Center **Postings** Budget File (Target: CRCOPP08, Event/Process Chain launched: PC\_CO\_IMEP\_32). Only one type of file can be loaded at once, and both types have different format.

User can choose an Excel flat file from his local computer by using the "File to load" browser.



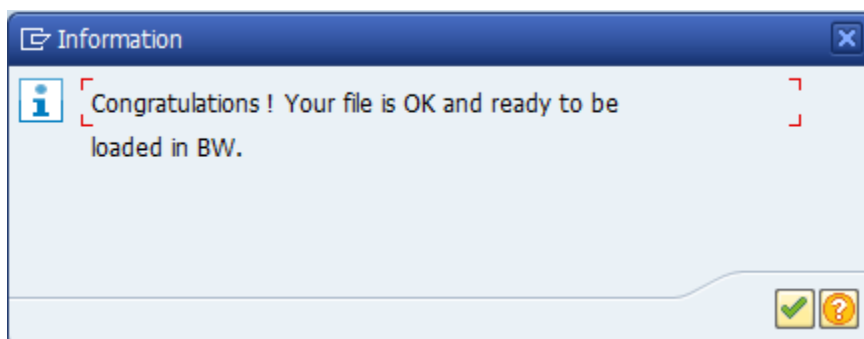
Once the file is chosen, the user can preview the content to be uploaded from his selected file by clicking on "Preview" icon.

Preview is color-coded: green entries are correct, while yellow ones return warnings and red ones return one or more errors.



Once the file is chosen, the user can start the content checking of the file by clicking on "Check file" icon.

If errors and warnings exist, they will be listed with a description of the error at the end of each line.



Once the file content is checked and all errors corrected, the user can load the file to BW application server (AL11) and raise the event associated with the type of import they chose by clicking on "Load file" icon.

The event PC\_CO\_IMEP\_15 triggers the process chain PC\_CO\_IMEP\_15 - "IMEP: META - T - Main (Flat Files)".

The event PC\_CO\_IMEP\_32 triggers the process chain PC\_CO\_IMEP\_32 - "IMEP: META - T - Main (CC postings) (Flat Files)".

Either process chain will load the user's file data into IMEP BW application.

**Directory: /exploit/BW/IMEP**



| Useable | View... | Chang... | Leng... | Owner   | Lastchange | Lastchange | File Name         |
|---------|---------|----------|---------|---------|------------|------------|-------------------|
|         |         | X        | 256     | sftpbw  | 03.10.2016 | 11:24:48   | .                 |
|         |         |          | 4096    | exploit | 21.09.2016 | 11:24:34   | ..                |
| X       |         |          | 540     | wbda... | 03.10.2016 | 11:24:48   | _WBD_TBRUNEL2.csv |
| X       |         |          | 590     | wbda... | 03.10.2016 | 11:24:48   | non-sap_plant.csv |

**IMEP - Management of Non-SAP Plant**



Choose the file to load

File to load



Your file has been sent to BW. It will be available in the reporting at the next data loading

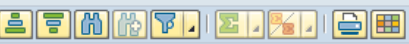
User can view the history of loaded files by clicking on "History" icon.

**IMEP - Management of Non-SAP Plant**



Choose the file to load

File to load



| Name of file              | Start Time | End Time | End Date | Start Date | Coun... | User     | BW System |
|---------------------------|------------|----------|----------|------------|---------|----------|-----------|
| IMEP - Non-SAP Plant.xlsx | 17:56:04   | 00:00:00 |          | 03.10.2016 | 11      | TBRUNEL2 | WBD       |
| IMEP - Non-SAP Plant.xlsx | 17:52:14   | 00:00:00 |          | 03.10.2016 | 10      | TBRUNEL2 | WBD       |
| IMEP - Non-SAP Plant.xlsx | 17:37:45   | 00:00:00 |          | 03.10.2016 | 9       | TBRUNEL2 | WBD       |
| IMEP - Non-SAP Plant.xlsx | 16:53:39   | 00:00:00 |          | 03.10.2016 | 8       | TBRUNEL2 | WBD       |

The user can exit the program by clicking on "Exit" icon.

## Source Code

Report ZBW\_IMEP002 contains several distinct forms:

Interface

Selection screen.

Import File

f200-import\_file: Import the XLS file from user's workstation.

f210-upload\_excel: Convert the XLS file in Internal table.

f220-check\_file: Check content of the file as follow, only for Planned Data Budget Files:

For more details, see file [ZWPPMCKOST\\_table structure & contents\\_QF1.xlsx](#). (obsolete)

- BUSINESS RULE 1. **VERSION VALUE** - IMEP\_BR1 (Rejection Code)  
BFR06 (Budget Forecast) or Byy (Yearly Budget, where yy between 00 and 99)
- BUSINESS RULE 2. **FISCAL YEAR VALUE** - IMEP\_BR2  
Year, between 1900 and 2999
- BUSINESS RULE 3. **PERIOD VALUE** - IMEP\_BR3  
Month, between 01 and 12
- BUSINESS RULE 4. **INDEX VALUE** - IMEP\_BR4  
Index is 1 (Produced material), 3 (BOM Component) or 9 (SKF/Direct Posting)
- BUSINESS RULE 5. **COST OBJECT EXISTS** - IMEP\_BR5  
Check DSO *DBCOPP13* for Cost Object. Empty Cost Object is accepted too.
  - BUSINESS RULE 5.2. **MATCHING COST OBJECT AND PLANT** - IMEP\_BR5\_2  
Check DSO *DBCOPP13* for Plant with Imported Cost Object. The Plant in the DSO must match imported Plant.
- BUSINESS RULE 6. **COST ELEMENT EXISTS** - RK14\_2  
Check Master Data *OCOSTELMNT* for Cost Element with Controlling Area *CHEF* and Level 1 Hierarchy *XCS-ALL*
- BUSINESS RULE 7. **COST CENTER**
  - BUSINESS RULE 7.1. **COST CENTER MANDATORY FOR INDEX 9** - RK3\_1
  - BUSINESS RULE 7.2. **COST CENTER EXISTS** - RK3\_2  
Check Master Data *C\_COSTCTR* for Cost Center with Controlling Area *CHEF*
- BUSINESS RULE 8. **ORIGIN**
  - BUSINESS RULE 8.1. **ORIGIN MANDATORY FOR INDEX 3** - IMEP\_BR8\_1
  - BUSINESS RULE 8.2. **ORIGIN EXISTS (as MATERIAL)** - IMEP\_BR8\_2  
Check Master Data *C\_MATNR2* for Origin with Source System *PF1\_020*
- BUSINESS RULE 9. **UNIT EXISTS** - RD12\_2  
Check Master Data *OUNIT* for Unit
- BUSINESS RULE 10. **CURRENCY EXISTS** - RD11\_2  
Check Master Data *OCURRENCY* for Currency.
- BUSINESS RULE 11. **KEY FIGURES VALUES** - IMEP\_BR11  
For index 3 and 9, check that Material Ledger Costs are not null (Sum of Fixed Costs, Variable Costs and Dependencies)
- BUSINESS RULE 12. **DUPLICATE ENTRIES** - RD14
- BUSINESS RULE 16: **KEY FIGURES ARE NUMERICS** - IMEP\_BR16  
Key figures only contains the following characters: '-0123456789.'
- BUSINESS RULE 17: **MATERIAL EXISTS** - RD10  
Check Master Data *C\_MATPNT2* for Material with imported Plant and Cost Object.

f230-check\_file\_cc: Check content of the file as follow, only for Cost Center Postings Budget Files:

Info: Business Rules sharing the same name are identical in both "check\_file" forms.

- BUSINESS RULE 1. **VERSION VALUE** - IMEP\_BR1 (Rejection Code)  
BFR06 (Budget Forecast) or Byy (Yearly Budget, where yy between 00 and 99)
- BUSINESS RULE 2. **FISCAL YEAR VALUE** - IMEP\_BR2  
Year, between 1900 and 2999
- BUSINESS RULE 3. **PERIOD VALUE** - IMEP\_BR3  
Month, between 01 and 12
- BUSINESS RULE 6. **COST ELEMENT EXISTS** - RK14\_2  
Check Master Data *OCOSTELMNT* for Cost Element with Controlling Area *CHEF* and Level 1 Hierarchy *XCS-ALL*
- BUSINESS RULE 7. **COST CENTER**
  - BUSINESS RULE 7.2. **COST CENTER EXISTS** - RK3\_2  
Check Master Data *C\_COSTCTR* for Cost Center with Controlling Area *CHEF*
  - BUSINESS RULE 7.3. **PARTNER COST CENTER EXISTS** - IMEP\_BR7\_3  
Check Master Data *C\_COSTCTR* for Cost Center with Controlling Area *CHEF*
  - BUSINESS RULE 7.4. **MATCHING COST CENTER AND PLANT** - IMEP\_BR7\_4  
Check Master Data *C\_COSTCTR* with Controlling Area *CHEF* and imported Cost Center. The attribute *C\_RPLANT* must match imported Plant.
- BUSINESS RULE 9. **UNIT EXISTS** - RD12\_2  
Check Master Data *OUNIT* for Unit
- BUSINESS RULE 10. **CURRENCY EXISTS** - RD11\_2  
Check Master Data *OCURRENCY* for Currency.
- BUSINESS RULE 12. **DUPLICATE ENTRIES** - RD14
- BUSINESS RULE 13: **PARTNER ORDER EXISTS** - IMEP\_BR13  
Check Master Data *C\_COORDER* for Cost Order with Source System *%F1\_020*
- BUSINESS RULE 14: **PARTNER WBSE EXISTS** - RK27\_2  
Check Master Data *C\_WBS\_EL2* for WBS Element with Source System *%F1\_020*
- BUSINESS RULE 15: **DEBIT/CREDIT INDICATOR IS SET** - IMEP\_BR15  
Debit/Credit Indicator is either 'S' or 'H'
- BUSINESS RULE 16: **KEY FIGURES ARE NUMERICS** - IMEP\_BR16  
Key figures only contains the following characters: '-0123456789.'

## Program Output

f300-output\_preview: Generate ALV grid to show Converted data from Excel.

f310-output\_check: Generate ALV grid to show Converted data from Excel after check.

## Program Load

f400-load\_pchain: Check if process chain is already in progress.

f413-csv\_file\_data: Import Customer file in ALL11.

- Filename consumed by process chain PC\_CO\_IMEP\_15 is hardcoded in this form: "/exploit/BW/IMEP/IMEP\_flat\_file.csv".
- Filename consumed by process chain PC\_CO\_IMEP\_32 is hardcoded in this form: "/exploit/BW/IMEP/IMEP\_cc\_flat\_file.csv".
- Flat file integrated manually by user, is saved as follow: '/exploit/BW/IMEP/' w\_file ' ' sy-sysid ' ' sy-uname '.csv'.  
Where w\_file is the filename on user's local pc, sy-sysid is the BW environment and sy-uname is the user name which is running the program.

f423-filename\_data: Update Global filter master data with new file name.

f433-savelog\_data: Update log after loading (DSO DBCOPP09 - "IMEP - Log Import (Non-SAP Plant) ( Direct Update )").

f440-finish\_message: Pop - up message once the program's operations are complete .

f453-send\_email\_data: Send an email after data loading.

f463-delete-obsolete-data: Selective deletion of data in either DPCOPP03/DBCOPP03/CRCOPP03 or DPCOPP04/DBCOPP14/CRCOPP08 based on Version (C\_VERSF) and Fiscal Period (0FISCPER).

## Program Log

f500-display\_log: Display log.

## Further explanations for program ZBW\_IMEP003

| IMEP - Options for IMEP loading                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                       |                                                                                                                                                                                                                        |
| If Initialization is selected, below parameters are ignored                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                        |
| <input type="checkbox"/> Initialization?                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                        |
| Which flow is concerned ?                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                        |
| <input checked="" type="radio"/> Solvay<br><input type="radio"/> RCS<br><input type="radio"/> Flat File                                                                                                                                                                                                                                                   | For Solvay and RCS, Selective Deletion is done on a given Period.<br>For Flat Files, the Version, the Fiscal Year (for Budget Forecasting) and the list of Plants in the imported file are taken into account instead. |
| Which action?                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                        |
| <input checked="" type="radio"/> Update current period <input type="radio"/> Update previous period                                                                                                                                                                                                                                                       | Only a single period is loaded/deleted at a time, either current period M or previous period M-1.<br>Program does not run if executed outside of the limits defined for the period selected ( From __ to __ )          |
| <input checked="" type="radio"/> 1) Get period to load<br>From <input type="text" value="01"/> to <input type="text" value="08"/> , load previous period.<br>From <input type="text" value="01"/> to <input type="text" value="31"/> , load current period.<br><input type="radio"/> 2) Delete period<br><input type="radio"/> 3) Delete obsolete periods | The same principle is applied for Actions 2 and 3, everything else is functionally identical to program ZBW_IMEP001.                                                                                                   |
| To be filled for action 2) or 3)                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                        |
| DSOs/Cubes list <input type="text"/>                                                                                                                                                                                                                                   |                                                                                                                                                                                                                        |
| <input type="checkbox"/> Display Application Log                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                        |

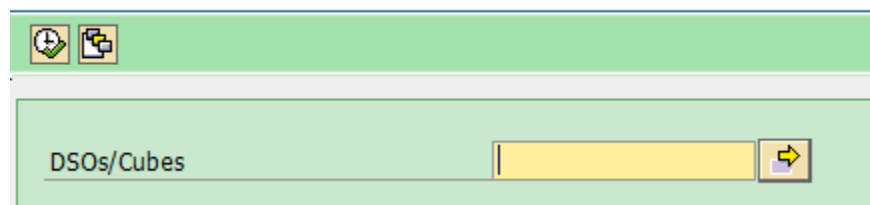
Program reads Global Filter to define Selective Deletion Perimeter. Depending on selected flow (and, for RCS and Solvay, selected period), Perimeter will be established reading different entries in Global Filter:



| Stream | Rule       | Counter | Global Filter Descri                                         | Sign | Option | Low                                          | Hight   | Acti... |
|--------|------------|---------|--------------------------------------------------------------|------|--------|----------------------------------------------|---------|---------|
| IMEP   | FF_DATA    | 1       | Input filename for ZBW_IMEP002 program                       |      |        | B19 upload file Rheinberg_V3_upload WBP.xlsx |         | Y       |
| IMEP   | FF_DATA    | 2       | Store actual delta queue of running RSPC PC_CO_IMEP_15       |      |        | 0                                            |         | Y       |
| IMEP   | FF_DATA    | 3       | Total counter for ZBW_IMEP002 program file loading           |      |        | 156                                          |         | Y       |
| IMEP   | FF_DATA    | 4       | Version that will be updated in Budget DSOs/Cubes            | I    | EQ     | B19                                          |         | Y       |
| IMEP   | FF_DATA    | 5       | List of Plants that will be updated in Budget DSOs/Cubes     | I    | EQ     | RBAA/RBAB                                    |         | Y       |
| IMEP   | FF_DATA    | 6       | Fiscal Year that will be updated in Budget DSOs/Cubes        | I    | EQ     | 2019                                         |         | Y       |
| IMEP   | RCS_DEL    | 1       | Period (YYYYPPP) to delete, RCS DSO/Cube. NO_DEL to avoid    | I    | BT     | 2018010                                      | 2018010 | Y       |
| IMEP   | RCS_DEL    | 2       | Period (YYYYPPP) to delete, RCS (M-1)                        | I    | BT     | NO_DEL                                       |         | Y       |
| IMEP   | RCS_HISTO  | 1       | Number of Year to keep in all DSOs/Cubes RCS                 | I    | EQ     | 6                                            |         | Y       |
| IMEP   | RCS_HISTO  | 2       | Delete all data in all DSOs/Cubes RCS older than             | I    | EQ     | 2012010                                      |         | Y       |
| IMEP   | RCS_LOAD   | 1       | Period (YYYYPPP) to load, RCS. NO_LOAD to avoid loadings     | I    | BT     | 2018010                                      | 2018010 | Y       |
| IMEP   | RCS_LOAD   | 2       | Period (YYYYPPP) to load, RCS (M-1)                          | I    | BT     | NO_LOAD                                      |         | Y       |
| IMEP   | SOLV_DEL   | 1       | Period (YYYYPPP) to delete, SOLVAY DSO/Cube. NO_DEL to avoid | I    | BT     | 2018010                                      | 2018010 | Y       |
| IMEP   | SOLV_DEL   | 2       | Period (YYYYPPP) to delete, SOLVAY (M-1)                     | I    | BT     | NO_DEL                                       |         | Y       |
| IMEP   | SOLV_HISTO | 1       | Number of Year to keep in all DSOs/Cubes Solvay              | I    | EQ     | 6                                            |         | Y       |
| IMEP   | SOLV_HISTO | 2       | Delete all data in all DSOs/Cubes Solvay older than          | I    | EQ     | 2012010                                      |         | Y       |
| IMEP   | SOLV_LOAD  | 1       | Period (YYYYPPP) to load, SOLVAY. NO_LOAD to avoid loadings  | I    | BT     | 2018010                                      | 2018010 | Y       |
| IMEP   | SOLV_LOAD  | 2       | Period (YYYYPPP) to load, SOLVAY (M-1)                       | I    | BT     | NO_LOAD                                      |         | Y       |

## Further explanations for program ZBW\_IMEP004

### IMEP - Delete older data from Current flow



All DSOs and Cubes listed in the program variant will be cleared of all M-2 data and older, leaving only Current and Previous Month.

## Record Keeping

Business requires 3 years of historical data in addition to current year. (Y to Y-3)

Cubes contain data since 2017. Historical data beyond this is stored in Propagation/Business level.

The number of years to keep can be maintained in Global Filter (C\_GLBFLT) masterdata (Stream IMEP / Rule RCS\_HISTO or SOLV\_HISTO/ Counter '001')

Older data are deleted from DSOs/Cubes at the end of the RCS and Solvay process chains (PC\_CO\_IMEP\_01/08/20/25).

### Data availability for go live (01.2017)

From Solvay PF1 : 2014 + 2015 + 2016

From RCS WP1: 2015 + 2016 (2014 was not available anymore as year was archived in WP1)

## Recurring procedure

### Reload data on a given period

**Warning n°1** : Cost Center Postings Business data (DBCOPP06, DBCOPP16) must always be loaded **after** Current and Historical Business data (DBCOPP01, DBCOPP04). Failure to do so will lead to incorrect CC Postings data. (PS: The method below avoids this issue, but be careful if you only reload from Business Level without launching the Process Chain)

**Warning n°2** : A "Delete Overlapping DTPs" step is applied on all Cubes reloaded daily. Always reload Current Month M (and Previous Month M-1 in closure period) in a **separate load** from the historical data, otherwise the data will be duplicated the next day as the Delete Overlapping cannot remove the data from a larger perimeter.

1. Update data in C\_GLBFLT (Stream = IMEP). You need to change the period in \*\*\*\_LOAD/1 and \*\*\*\_DEL/1 to the period you are using. Depending on what you are reloading, \*\*\* is either SOLV or RCS:

**Characteristic C\_GLBFLT - maintain master data: List**

| Data Records to be Edited |            |         |                                                              |      |        |         |         |        |  |
|---------------------------|------------|---------|--------------------------------------------------------------|------|--------|---------|---------|--------|--|
| Stream                    | Rule       | Counter | Global Filter Descri                                         | Sign | Option | Low     | Hight   | Active |  |
| IMEP                      | RCS_DEL    | 1       | Period (YYYYPPP) to delete, RCS DSO/Cube. NO_DEL to avoid    | I    | BT     | 2017011 | 2017011 | Y      |  |
| IMEP                      | RCS_HISTO  | 1       | Number of Year to keep in all DSOs/Cubes RCS                 | I    | EQ     | 6       |         | Y      |  |
| IMEP                      | RCS_HISTO  | 2       | Delete all data in all DSOs/Cubes RCS older than             | I    | EQ     | 2011011 |         | Y      |  |
| IMEP                      | RCS_LOAD   | 1       | Period (YYYYPPP) to load, RCS. NO_LOAD to avoid loadings     | I    | BT     | 2017011 | 2017011 | Y      |  |
| IMEP                      | SOLV_DEL   | 1       | Period (YYYYPPP) to delete, SOLVAY DSO/Cube. NO_DEL to avoid | I    | BT     | 2017011 | 2017011 | Y      |  |
| IMEP                      | SOLV_HISTO | 1       | Number of Year to keep in all DSOs/Cubes Solvay              | I    | EQ     | 6       |         | Y      |  |
| IMEP                      | SOLV_HISTO | 2       | Delete all data in all DSOs/Cubes Solvay older than          | I    | EQ     | 2011011 |         | Y      |  |
| IMEP                      | SOLV_LOAD  | 1       | Period (YYYYPPP) to load, SOLVAY. NO_LOAD to avoid loadings  | I    | BT     | 2017011 | 2017011 | Y      |  |

2. The previous step is usually done by program ZBW\_IMEP003 when the Process Chain starts. Thus, you need to disable the variant used in the PC to keep the period entered manually.

To do so, open the Process Chain you will use for the reload (PC\_CO\_IMEP\_01 for Solvay and PC\_CO\_IMEP\_08 for RCS) and check the first program.

Variant will always be ZVAR\_PER\_\*\*\*:

|                                                                                                        |                     |                                                                                                   |                                |
|--------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------|--------------------------------|
| Variant                                                                                                | APGR_ZBW_IMEP003_05 |                                                                                                   | Determine period to load/delet |
| Last Changed By                                                                                        | DDIC                | Changed On                                                                                        | 21.11.2017 At 10:58:19         |
| <b>Call Mode</b><br><input checked="" type="radio"/> Synchronous<br><input type="radio"/> Asynchronous |                     | <b>Called From</b><br><input checked="" type="radio"/> Local<br><input type="radio"/> Destination |                                |
| <b>Program to Call</b><br><input checked="" type="radio"/> Program                                     |                     |                                                                                                   |                                |
| Program Name                                                                                           |                     | ZBW_IMEP003                                                                                       |                                |
| Program Variant                                                                                        |                     | ZVAR_PER_SOLV1                                                                                    |                                |

Open the variant to Change it, check the "Initialization?" button:

### Edit Variants: Variant ZVAR\_PER\_SOLV1

|                                                             |
|-------------------------------------------------------------|
| <b>Variant Attributes</b>                                   |
| If Initialization is selected, below parameters are ignored |
| <input type="checkbox"/> Initialization?                    |

Save and leave. **Don't forget to come back to uncheck the button once you are done.**

3. Run the Process Chain using Function Module (SE37) RSPC\_API\_CHAIN\_START, keep an eye on the process.

## Data Quality Control

Data come from SAP system. To compare data between BW and sources systems, check propagation layers.

## Operational Documentation

### Procedures

<Describe the recurring procedures needed to operate the application (eg. start/pause/terminate/restart the app processes, data preparation, data ingestion, ETL, data visualization, data export, other manual activities)>

### Scheduling

<Describe the scheduling in place for the application (eg. existing jobs, trigger time/event based, dependencies)>

## Monitoring

<Describe the monitoring checks to confirm the application is performing well (eg. check the overall status, check performance metrics like runtime /data volume/memory/disk/CPU, maintain and react to alerts/notifications)>

## Error Handling

<Describe how to handle errors (eg. error codes, description and respective resolution, alert users)>

## Known Bugs

<List the existing bugs, its criticity, workarounds and resolution plan.>

## Roadmap

<List past & future evolutions for the application (including links to MED/FSD/TSD)>